**Additional Linear Practice**

1. A family raises pumpkins to carve for Halloween. It takes them 2 minutes to select a standard pumpkin from their patch and 6 minutes to carve it. It takes 3 minutes to select a deluxe pumpkin and 3 minutes to carve it. They can only spend 2 hours selecting pumpkins and 4 hours carving pumpkins each day. Each standard pumpkin is sold for $4 and each deluxe pumpkin is sold for $5.50. Help them determine the combination of standard and deluxe pumpkins that will maximize revenue.

**Show all relevant work needed to solve this problem.**

1. A glass of skim milk supplies 0.1 units of iron and 8.5 units of protein. A quarter pound of lean meat provides 3.4 units of iron and 22 units of protein. Gordy is on a special diet and needs 7.1 units of iron and 69.5 units of protein daily. How many glasses of skim milk and how many quarter-pound servings of lean meat will he need to consume each day?
   1. Define the variables.
   2. Write the system of equations that would model this situation.
   3. Solve the system that you wrote in **part b**. **Show your algebraic work.**
   4. Interpret your answer to **part c** in the context of the problem.